Heating Policies and Strategies

Kurt Adams
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Where We Are

COLORADO
Customers: 21,300
Transmission Main Line: 6 miles
Distribution Main Line: 1,252 miles

MISSOURI
Customers: 18,800
Transmission Main Line: 304 miles
Distribution Main Line: 1,058 miles

MAINE
Customers: 3,000
Transmission Main Line: 68 miles
Distribution Main Line: 163 miles

OKLAHOMA
Customers: 12,900
T&D Main Line: 832 miles

ARKANSAS
Customers: 45,000
T&D Main Line: 1,717 miles
Natural Gas Can Power Maine’s Energy Future

Natural Gas Can Strengthen Our Economy

Expanding Natural Gas can lower consumer heating costs 15-25% over 10 years!

Source: internal modeling with data provided by the Governor’s Energy Office and the EPA

Natural Gas Can Drive Our Environmental Priorities

Expanding Natural Gas will lower CO2 emissions by over 300,000 tons per year!

Source: internal modeling and data provided by ICF.
Natural Gas Costs Less Than Other Fuels

Heating Value Compared to Other Energy Sources

Natural gas costs less to use than other major home energy sources.

Heating Costs in Maine Per MMBTU

Source: http://maine.gov/energy/fuel_prices/index.shtml
Natural Gas: Stable and Low Cost

Fuel Costs

Forecast

Gas Will Become Increasingly Cost Effective

Source: Data provided by ICF
Electrification is Less Efficient Than Gas Delivered to the Home

**Natural Gas**
- **Source Energy**: 100 MMBtu
- **Extraction, Processing & Transportation**: 97% Energy Loss, 93 MMBtu
- **Generation**: 1% Energy Loss, 92 MMBtu
- **Delivered to Customer**: 92 MMBtu

**Electricity**
- **Source Energy**: 100 MMBtu
- **Extraction, Processing & Transportation**: 5% Energy Loss, 95 MMBtu
- **Generation**: 64% Energy Loss, 34 MMBtu
- **Distribution**: 6% Energy Loss, 32 MMBtu
- **Delivered to Customer**: 32 MMBtu

*Based on most recent actual generation mix of all energy sources from 2012*
Even with Heat Pumps.....

Electric Heat Pump Performance Erodes in Cold Climates

Cold ambient temps lower heat pump efficiency by 30-50% (or more.)
Natural Gas Can Drive our Environmental Priorities

Particulate Emission Reductions are Key to Health

Natural Gas resulted in virtually zero particulate emissions. That’s compared to 1.4 lbs/MMBTus resulting from an EPA Certified Woodstove.
Moving to Natural Gas has Enormous CO2 Reductions

Natural Gas Emissions Compared to Other Fuels Sources

Natural Gas releases fewer emissions compared to fuel alternatives.

POUNDS OF CO2 PER MILLION BTU BY FUEL SOURCE

Statistics by: U.S. Energy Information Administration